CLAIMS

1. Recessed hinge to make a temple (A, A^1, A^2, A^3, A^4) elastic with respect to a respective endpiece (3, 3^1, 3^2, 3^3, 3^4) of a frame (F) of a pair of spectacles, said hinge comprising at least a male hinging element (100, 100^1, 100^2, 100^3, 100^4) pivoted to at least a corresponding female element (200, 200^1, 200^2, 200^3, 200^4), said male hinging element (100, 100^1, 100^2, 100^3, 100^4) comprising at least a tie-rod (12, 12^1, 12^2, 12^3, 12^4) able to slide with respect to said temple (A, A^1, A^2, A^3, A^4), a bushing (2, 2^2, 2^3, 2^4, 73) arranged inside said temple (A, A^1, A^2, A^3, A^4) and axially associated with said tie-rod (12, 12^1, 12^2, 12^3, 12^4), and an elastic means (5, 5^1, 5^2, 5^3, 5^4) loaded between said bushing (2, 2^2, 2^3, 2^4, 73) and an abutment element (6, 6^1, 6^2, 6^3, 6^4) attached to said tie-rod (12, 12^1, 12^2, 12^3, 12^4), characterized in that said female element (200, 200^1, 200^2, 200^3, 200^4) comprises a seating (30, 30^1, 30^2, 30^3, 30^4) made in said endpiece (3, 3^1, 3^2, 3^3, 3^4) by removing material, and in that said male hinging element (100, 100^1, 100^2, 100^3, 100^4) comprises a hook element (1, 1^1, 14, 60), solid with said tie-rod (12, 12^1, 12^2, 12^3, 12^4), housed in said seating (30, 30^1, 30^2, 30^3, 30^4) and able to articulate on a pin (4, 4^1, 4^2, 14) arranged inside said seating (30, 30^1, 30^2, 30^3, 30^4).

2. Recessed hinge as in claim 1, characterized in that said male hinging element (100^1) comprises two tie-rods (12^1) arranged co-planar and substantially parallel with each other, and able to be pivoted with the relative hook elements (1^1) inside relative seatings (30^1).

3. Recessed hinge as in claim 1, characterized in that said male hinging element (100^2, 100^4) comprises two tie-rods (12^2, 12^4) arranged co-planar and substantially parallel with each other, and able to be pivoted with the

relative hook elements (14, 60) inside a single common seating (30^2, 30^4).

4. Recessed hinge as in claim 2 or 3, characterized in that it comprises a single pin (4^1, 4^2, 14) to pivot said tie-rods (12^1, 12^2, 12^4).

5. Recessed hinge as in any claim hereinbefore, characterized in that said seating (30, 30^1, 30^2, 30^3, 30^4) comprises at least two lateral fins (31, 31^1) provided with respective through holes (32, 32^1), with which a central hole (11, 11^1) is axially aligned, made through transverse to said hook element (1, 1^1, 14, 60), said through holes (32, 32^1) being able to allow the insertion of said pin (4, 4^1, 4^2, 14) through said fins (31, 31^1) and said hook element (1, 1^1, 14, 60).

6. Recessed hinge as in claim 5, characterized in that at least one of said through holes (32, 32^1) is threaded in order to allow said pin (4, 4^1, 4^2, 14) to be screwed therein.

7. Recessed hinge as in claim 5 or 6, characterized in that said seating (30, 30^1, 30^2, 30^3, 30^4) comprises at least a curved segment having a radius of curvature (R) centered in said through holes (32, 32^1), equal to or a little more than a radius of curvature (r) of said hook element (1, 1^1), centered in said central hole (11, 11^1).

8. Recessed hinge as in claim 7, characterized in that said through holes (32, 32^1) have a center distant from the leading edge and from the lower edge of said endpiece (3, 3^1) of a distance substantially equal to said radius of curvature (R).

9. Recessed hinge as in any claim hereinbefore, characterized in that said bushing (2, 2^2, 2^3, 2^4) is able to be inserted inside a mating hole (71, 71^2, 71^3, 71^4) made at one end (7, 7^2, 7^3, 7^4) of said temple (A, A^2, A^3, A^4),

and comprises a slightly undulating outer surface (20), a lead-in (21) shaped like a truncated cone, and a through hole (22), able to house said tie-rod (12, 12^2, 12^3, 12^4) with a slight play.

10. Recessed hinge as in any claim hereinbefore, characterized in that said bushing is made at one end (7^1) of said temple (A^1) and comprises a through hole (73) made coaxial and having a reduced diameter with respect to a hole (71^1).

11. Recessed hinge as in claim 10, characterized in that said hole (71^1) is open on one side and is able to be selectively closed by a plate (75).

12. Recessed hinge as in claim 3, characterized in that said two tie-rods (12^2) are connected to each other inside said seating (30^2) by a coil-type connection element (60), arranged around a pin (4^2).

13. Recessed hinge as in claim 3 or 12, characterized in that only one of said tie-rods (12^2, 12^4) is associated with a relative elastic means (5^2, 5^4).

14. Recessed hinge as in claim 1, characterized in that said male hinging element (100^3) and the female element (200^3) are arranged and made inside corresponding containing boxes (50, 51) associated respectively with said temple (A^3) and with the endpiece (3^3).

15. Recessed hinge as in claim 3, characterized in that said two tie-rods (12^4) are connected to each other by a transverse element (14) orthogonal thereto, functioning as a pin, and in that said female element (200^4) comprises a hook element (40) open at one side and partly drowned inside said seating (30^4), and able to cooperate with said transverse element (14) in order to determine the pivoting of said male hinging element (100^4) and said female element (200^4).

16. Recessed hinge as in any claim hereinbefore, characterized in that said hook element (1, 1^1, 14, 60) is able to be inserted with play into said seating (30, 30^1, 30^2, 30^3, 30^4) in order to allow a pre-determined vertical movement of the temples (A, A^1, A^2, A^3, A^4), and also a possible pantoscopic adjustment, by means of a prior conformation of said endpiece (3, 3^1, 3^2, 3^3, 3^4).